

PLEA FOR THE CONSERVATION OF *APHIS PYRI* BOYER DE FONSCOLOMBE, 1841 AND THE SUPPRESSION OF *APHIS PYRI* VALLOT, 1802, *APHIS PYRI* KITTEL, 1827 AND SEVEN OTHER BINOMINALS PROPOSED BY KITTEL IN 1827. Z.N.(S.) 2062

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This application concerns an aphid name for illustrations published by Réaumur (1737) proposed by Vallot (1802) and never subsequently referred to in aphid literature. This name antedates that of a pest species, *Aphis pyri* Boyer de Fonscolombe, 1841, the pear-bedstraw aphid, now known as *Dysaphis pyri* (Boyer de Fonscolombe). Kittel (1827) proposed a binomen, *Aphis pyri* but Kittel's names in that paper have been ignored by aphid workers until recently because they were thought to be invalid (Hille Ris Lambers 1939, *Temminckia* 4 : 2), as Kittel did not use binominals consistently. If accepted, several of Kittel's names would preoccupy the currently accepted names of well known species.

1. Réaumur (1737, *Mem. serv. Hist. Ins.*, Paris, vol. 3, mem. 9 plate 24 figs 1 & 2) figured a rolled pear leaf and an aphid. Figure 5 on the same plate is of a leaf edge gall on apple. The pear aphid is probably the species now called *Dysaphis reaumuri* (Mordvilko) and the apple gall was probably caused by *Dysaphis devector* (Walker) or a close relative.

2. De Geer (1773, *Mem. Hist. Ins.* 3 : 53–55) describes *Aphis pomi*, a pest of apples still called *Aphis pomi* De Geer and about which there has been no subsequent confusion.

3. Vallot (1802, *Concordance Systématique . . . ouvrage de Réaumur*, Paris, p. 94) proposes the name *Aphis pyri* for figures 1 & 2 of plate 24 of Réaumur (1737). He also (*ibid.* p. 95) proposes *Aphis pomi* as a name for figure 5 but this name is preoccupied by *Aphis pomi* De Geer.

4. Kittel (1827, *Sur les Pucerons, suivi de la description de quelques espèces nouvelles*, *Mem. Soc. Lin.*, Paris 5 1826: 133–155) described 13 species of aphids including one living on pear which is named *Aphis pyri*. Kittel used 5 trinominals and 8 binominals as follows: 1 *Aphis aquilegiae nigra*, 2 *A. aquilegiae flava*, 3 *A. sonchi pruinosa*, 4 *A. sonchi viridifurcata*, 5 *A. hyosciami*, 6 *A. pyri*, 7 *A. solani*, 8 *A. piperis*, 9 *A. epilobii*, 10 *A. scirpi*, 11 *A. morae*, 12 *A. lavaterae*, 13 *A. salicis minor*. If accepted 6, 7, 9 and 10 would preoccupy the currently accepted names of well known species, one of which is the glasshouse-potato aphid.

5. Boyer de Fonscolombe (1841, *Ann. ent. Soc. France* 10 : 189–190) described *Aphis pyri* as a new species, and this as *Dysaphis pyri* is the currently accepted name of the pear-bedstraw aphid.

6. Kaltenbach (1843, *Mon. fam. Pflanzenläuse*, pp. 15 & 64) describes *Aphis solani* and *A. epilobii* respectively. *Aphis epilobii* is the currently accepted name for a common aphid on *Epilobium* and *Aulacorthum solani* (Kaltenbach) is the glasshouse-potato aphid and is known to transmit at least 38 virus diseases.

7. Passerini (1874, *Bul. ent. Soc. ital.* 6 : 137) described *Toxoptera scirpi* a widespread European species subsequently known as *Schizaphis scirpi* (Passerini) and probably the species which Kittel (1827) described as *Aphis scirpi*.

8. Börner (1952, *Mitt. Thüring. Bot. Ges.* 4(3)) accepted Kittel's names and used them to preoccupy or replace well known names.

9. If *Aphis pyri* Vallot, 1802 were accepted it would replace *Dysaphis reaumuri* (Mordvilko) and would preoccupy *Dysaphis pyri* (Boyer de Fonscolombe, 1841) which would require a new name. The application of the binomen *Dysaphis pyri* to a different species of Aphid could only cause confusion as it would often be impossible to tell in which sense the name was being used.

10. The Kittel (1827) names (paragraph 4 of this application) are not required for any species, and his species are difficult to recognise. At least one of them, *Aphis solani*, is probably not an aphid, so if accepted could become available for a member of another family, causing confusion there. If accepted, four of Kittel's binominals *Aphis pyri*, *solani*, *epilobii* and *scirpi* would preoccupy the names currently used for well known aphids. The names had not been used prior to 1952 as it was thought that they were invalid because the author did not consistently use binominals.

11. The Commission is asked to conserve the name *Aphis pyri* Boyer de Fonscolombe, 1841 and to suppress the name *Aphis pyri* Vallot, 1802.

12. The Commission is also asked to suppress the names proposed by Kittel (1827) as the author did not consistently use binominals, and because if they were to be accepted they would require changes in the names of two well known pests, *Aulacorthum solani* (Kltb.) and *Dysaphis pyri* (B.d.F.) and in two other well known aphids, *Aphis epilobii* Kltb. and *Schizaphis scirpi* (Passerini).

Therefore the International Commission on Zoological Nomenclature is asked:

- (1) to use its plenary powers to suppress the specific name *pyri* Vallot 1802, as published in the binomen *Aphis pyri*, for the purposes of the Law of Priority and for those of the Law of Homonymy;
- (2) to declare that the work Kittel, 1827, *Sur les Pucerons, suivi de la description de quelques espèces nouvelles. Mémoires de la Société Linéenne de Paris*, volume 5, 1826: 133-155, is not available for the purposes of zoological nomenclature by reason of the fact that the author did not consistently apply the principles of binominal nomenclature therein;
- (3) to place on the Official List of Specific Names in Zoology the specific name *pyri* Boyer de Fonscolombe, 1841, as published in the binomen *Aphis pyri*;
- (4) to place the following names on the Official Index of Rejected and Invalid Specific Names in Zoology:
 - (a) *pyri* Vallot, 1802, as published in the binomen *Aphis pyri*;
 - (b) the following names published by Kittel, 1827:
 - Aphis aquilegiae nigra* page 148.
 - Aphis aquilegiae flava* page 148.

Aphis sonchi pruinosa page 149.

Aphis sonchi viridifurcata page 149.

Aphis hyosciami page 149.

Aphis pyri page 150.

Aphis solani page 151.

Aphis piperis page 152.

Aphis epilobii page 152.

Aphis scirpi page 153.

Aphis morae page 153.

Aphis lavaterae page 154.

Aphis salicis minor page 154.

- (5) to place the following work on the Official Index of Rejected and Invalid Works in Zoology: Kittel, 1827. Sur les Pucerons, suivi de la description de quelques espèces nouvelles. *Mémoires de la Société Linnéenne de Paris* volume 5 1826: 133-155.





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